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BT BL
Brit Baker

ATTN: PATENT APPLICATIONS

Commissioner for Patents
Washington, D.C. 20231

Re: U.S. Patent Application Entitled "IN SITU PRODUCTION OF SYNTHESIS GAS FROM A COAL FORMATION, THE SYNTHESIS GAS HAVING A SELECTED H₂ TO CO RATIO" -- Wellington, et al.

Sir:

Transmitted herewith for filing is a 217 page specification (including a title page), 727 pages of claims (Claims 1-5149), and a one page abstract. In addition, we have also included 135 formal drawings on 105 sheets. The disclosure and drawings constitute the application of Scott L. Wellington, Harold J. Vinegar, Eric de Rouffignac, John M. Karanikas, Ilya E. Berchenko, George L. Stegemeier, Kevin A. Maher, Etuan Zhang, Gordon T. Shahin, James L. Menotti, John M. Coles, Thomas D. Fowler, Charlie R. Keedy, Ajay M. Madgavkar, Martijn van Hardeveld, Robert C. Ryan, Lanny Schoeling and Fred G. Carl for the above-entitled invention.

Author	Year	Country	Sample Size	Method	Findings
Smith et al.	1995	USA	1,200	Survey	High levels of stress and anxiety reported among adolescents.
Johnson et al.	1998	UK	800	Interview	Adolescents with mental health problems often experience social isolation.
Lee et al.	2001	Canada	1,500	Survey	Increased risk of substance use among adolescents with mental health issues.
Wong et al.	2003	Australia	900	Focus Group	Adolescents seek support from peers and family members.
Chen et al.	2005	China	2,000	Survey	Mental health services are underutilized in rural areas.
Miller et al.	2007	USA	1,100	Survey	Adolescents with mental health problems often experience stigma.
Patel et al.	2009	India	1,300	Interview	Cultural factors influence the help-seeking behavior of adolescents.
Nguyen et al.	2011	Vietnam	1,400	Survey	Adolescents with mental health problems often experience family conflict.
Kim et al.	2013	South Korea	1,600	Survey	High levels of academic pressure contribute to adolescent mental health issues.
Alvarez et al.	2015	Spain	1,700	Survey	Adolescents with mental health problems often experience social isolation.
Okada et al.	2017	Japan	1,800	Survey	Adolescents with mental health problems often experience family conflict.
Costa et al.	2019	Brazil	1,900	Survey	Adolescents with mental health problems often experience social isolation.

EBM:etg
Enclosures